

Beatriz Pelaz

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

5,718
citations

34
h-index

75
g-index

99
ext. papers

6,499
ext. citations

8.9
avg, IF

5.47
L-index

#	Paper	IF	Citations
93	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
92	Surface Functionalization of Nanoparticles with Polyethylene Glycol: Effects on Protein Adsorption and Cellular Uptake. <i>ACS Nano</i> , 2015 , 9, 6996-7008	16.7	587
91	Protein corona formation around nanoparticles [From the past to the future]. <i>Materials Horizons</i> , 2014 , 1, 301-313	14.4	401
90	CuTe nanocrystals: shape and size control, plasmonic properties, and use as SERS probes and photothermal agents. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7098-101	16.4	342
89	The challenge to relate the physicochemical properties of colloidal nanoparticles to their cytotoxicity. <i>Accounts of Chemical Research</i> , 2013 , 46, 743-9	24.3	297
88	Dissecting the molecular mechanism of apoptosis during photothermal therapy using gold nanoprisms. <i>ACS Nano</i> , 2015 , 9, 52-61	16.7	260
87	The state of nanoparticle-based nanoscience and biotechnology: progress, promises, and challenges. <i>ACS Nano</i> , 2012 , 6, 8468-83	16.7	188
86	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 399-461	9.6	176
85	Interfacing engineered nanoparticles with biological systems: anticipating adverse nano-bio interactions. <i>Small</i> , 2013 , 9, 1573-84	11	154
84	Tailoring the synthesis and heating ability of gold nanoprisms for bioapplications. <i>Langmuir</i> , 2012 , 28, 8965-70	4	145
83	Dual Enzymatic Reaction-Assisted Gemcitabine Delivery Systems for Programmed Pancreatic Cancer Therapy. <i>ACS Nano</i> , 2017 , 11, 1281-1291	16.7	129
82	In vitro interaction of colloidal nanoparticles with mammalian cells: What have we learned thus far?. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1477-90	3	114
81	Gold nanoprisms as optoacoustic signal nanoamplifiers for in vivo bioimaging of gastrointestinal cancers. <i>Small</i> , 2013 , 9, 68-74	11	108
80	Basic Physicochemical Properties of Polyethylene Glycol Coated Gold Nanoparticles that Determine Their Interaction with Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5483-7	16.4	103
79	Influence of Size and Shape on the Anatomical Distribution of Endotoxin-Free Gold Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 5519-5529	16.7	99
78	Tumour homing and therapeutic effect of colloidal nanoparticles depend on the number of attached antibodies. <i>Nature Communications</i> , 2016 , 7, 13818	17.4	93
77	Engineering biofunctional magnetic nanoparticles for biotechnological applications. <i>Nanoscale</i> , 2010 , 2, 1746-55	7.7	90

76	Phase Transfer and Polymer Coating Methods toward Improving the Stability of Metallic Nanoparticles for Biological Applications. <i>Chemistry of Materials</i> , 2015 , 27, 990-997	9.6	87
75	How Entanglement of Different Physicochemical Properties Complicates the Prediction of in Vitro and in Vivo Interactions of Gold Nanoparticles. <i>ACS Nano</i> , 2018 , 12, 10104-10113	16.7	81
74	Advances toward More Efficient Targeted Delivery of Nanoparticles in Vivo: Understanding Interactions between Nanoparticles and Cells. <i>ACS Nano</i> , 2017 , 11, 2397-2402	16.7	78
73	Model Driven Optimization of Magnetic Anisotropy of Exchange-coupled Core-Shell Ferrite Nanoparticles for Maximal Hysteretic Loss. <i>Chemistry of Materials</i> , 2015 , 27, 7380-7387	9.6	76
72	Homogeneous Biosensing Based on Magnetic Particle Labels. <i>Sensors</i> , 2016 , 16,	3.8	65
71	High-Content Imaging and Gene Expression Approaches To Unravel the Effect of Surface Functionality on Cellular Interactions of Silver Nanoparticles. <i>ACS Nano</i> , 2015 , 9, 10431-44	16.7	61
70	Colloidal Gold Nanoparticles Induce Changes in Cellular and Subcellular Morphology. <i>ACS Nano</i> , 2017 , 11, 7807-7820	16.7	60
69	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7078-7082	16.4	58
68	Interaction of stable colloidal nanoparticles with cellular membranes. <i>Biotechnology Advances</i> , 2014 , 32, 679-92	17.8	58
67	The effect of static magnetic fields and tat peptides on cellular and nuclear uptake of magnetic nanoparticles. <i>Biomaterials</i> , 2010 , 31, 4392-400	15.6	58
66	Sterilization matters: consequences of different sterilization techniques on gold nanoparticles. <i>Small</i> , 2010 , 6, 89-95	11	56
65	Characterization of gold nanoparticles with different hydrophilic coatings via capillary electrophoresis and Taylor dispersion analysis. Part I: determination of the zeta potential employing a modified analytic approximation. <i>Journal of Colloid and Interface Science</i> , 2015 , 450, 288-300	9.3	51
64	Charge and agglomeration dependent in vitro uptake and cytotoxicity of zinc oxide nanoparticles. <i>Journal of Inorganic Biochemistry</i> , 2015 , 153, 334-338	4.2	48
63	Gold-Based Nanomaterials for Applications in Nanomedicine. <i>Topics in Current Chemistry</i> , 2016 , 370, 169-202		43
62	Plasmonic-driven thermal sensing: ultralow detection of cancer markers. <i>Chemical Communications</i> , 2013 , 49, 3676-8	5.8	41
61	Functionalized Fe ₃ O ₄ @Au superparamagnetic nanoparticles: in vitro bioactivity. <i>Nanotechnology</i> , 2012 , 23, 315102	3.4	40
60	The impact of species and cell type on the nanosafety profile of iron oxide nanoparticles in neural cells. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 69	9.4	35
59	Characterization of hydrophilic coated gold nanoparticles via capillary electrophoresis and Taylor dispersion analysis. Part II: Determination of the hydrodynamic radius distribution - Comparison with asymmetric flow field-flow fractionation. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 131-40	9.3	33

58	Quantitative uptake of colloidal particles by cell cultures. <i>Science of the Total Environment</i> , 2016 , 568, 819-828	10.2	33
57	Comparison of the Uptake and Toxicity of Collagen- and Synthetic Polymer-Coated Gold Nanoparticles. <i>Nanomaterials</i> , 2015 , 5, 1418-1430	5.4	30
56	Particle-based optical sensing of intracellular ions at the example of calcium - what are the experimental pitfalls?. <i>Small</i> , 2015 , 11, 896-904	11	27
55	Metal ions in the context of nanoparticles toward biological applications. <i>Current Opinion in Chemical Engineering</i> , 2014 , 4, 88-96	5.4	27
54	Asymmetric Negishi reaction for sterically hindered couplings: synthesis of chiral binaphthalenes. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 2593-2595		27
53	Optimizing conditions for labeling of mesenchymal stromal cells (MSCs) with gold nanoparticles: a prerequisite for in vivo tracking of MSCs. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 24	9.4	26
52	Evaluation of quantum dot cytotoxicity: interpretation of nanoparticle concentrations versus intracellular nanoparticle numbers. <i>Nanotoxicology</i> , 2016 , 10, 1318-28	5.3	26
51	Tracking stem cells and macrophages with gold and iron oxide nanoparticles □The choice of the best suited particles. <i>Applied Materials Today</i> , 2019 , 15, 267-279	6.6	26
50	Synthesis, Characterization, and Evaluation of Superparamagnetic Doped Ferrites as Potential Therapeutic Nanotools. <i>Chemistry of Materials</i> , 2020 , 32, 2220-2231	9.6	25
49	Inhibition of the cancer-associated TASK 3 channels by magnetically induced thermal release of Tetrandrine from a polymeric drug carrier. <i>Journal of Controlled Release</i> , 2016 , 237, 50-60	11.7	25
48	Investigating the role of shape on the biological impact of gold nanoparticles in vitro. <i>Nanomedicine</i> , 2015 , 10, 2643-57	5.6	24
47	Conjugation of Polymer-Coated Gold Nanoparticles with Antibodies-Synthesis and Characterization. <i>Nanomaterials</i> , 2015 , 5, 1297-1316	5.4	24
46	Colloidal bioplasmonics. <i>Nano Today</i> , 2018 , 20, 58-73	17.9	22
45	Dissecting common and divergent molecular pathways elicited by CdSe/ZnS quantum dots in freshwater and marine sentinel invertebrates. <i>Nanotoxicology</i> , 2017 , 11, 289-303	5.3	21
44	Nanoparticle dosage-a nontrivial task of utmost importance for quantitative nanosafety research. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016 , 8, 479-92	9.2	20
43	The role of intracellular trafficking of CdSe/ZnS QDs on their consequent toxicity profile. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 45	9.4	18
42	Highly active antibody-modified magnetic polyelectrolyte capsules. <i>Journal of Colloid and Interface Science</i> , 2016 , 474, 1-8	9.3	18
41	Core-Shell Palladium/MOF Platforms as Diffusion-Controlled Nanoreactors in Living Cells and Tissue Models. <i>Cell Reports Physical Science</i> , 2020 , 1, 100076	6.1	16

40	Multiparametric analysis of anti-proliferative and apoptotic effects of gold nanoprisms on mouse and human primary and transformed cells, biodistribution and toxicity in vivo. <i>Particle and Fibre Toxicology</i> , 2017 , 14, 41	8.4	16
39	Photothermal effects on protein adsorption dynamics of PEGylated gold nanorods. <i>Applied Materials Today</i> , 2019 , 15, 599-604	6.6	15
38	Homogeneous Protein Analysis by Magnetic Core-Shell Nanorod Probes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8893-9	9.5	15
37	808nm-activable core@multishell upconverting nanoparticles with enhanced stability for efficient photodynamic therapy. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 85	9.4	13
36	Enhanced All-Optical Modulation of Terahertz Waves on the Basis of Manganese Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21634-21640	3.8	13
35	Choose your cell model wisely: The in vitro nanoneurotoxicity of differentially coated iron oxide nanoparticles for neural cell labeling. <i>Acta Biomaterialia</i> , 2017 , 55, 204-213	10.8	12
34	Polymer-coated nanoparticles: Carrier platforms for hydrophobic water- and air-sensitive metallo-organic compounds. <i>Pharmacological Research</i> , 2017 , 117, 261-266	10.2	12
33	Investigating Possible Enzymatic Degradation on Polymer Shells around Inorganic Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	12
32	Nanoparticles engineered to bind cellular motors for efficient delivery. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 33	9.4	12
31	In vivo ultrasound-activated delivery of recombinant tissue plasminogen activator from the cavity of sub-micrometric capsules. <i>Journal of Controlled Release</i> , 2019 , 308, 162-171	11.7	10
30	Aqueous stable luminescent perovskite-polymer composites. <i>Applied Materials Today</i> , 2019 , 15, 562-569	6.6	9
29	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie</i> , 2019 , 131, 7152-7156	3.6	9
28	Introducing Students to Surface Modification and Phase Transfer of Nanoparticles with a Laboratory Experiment. <i>Journal of Chemical Education</i> , 2017 , 94, 769-774	2.4	8
27	Direct protein quantification in complex sample solutions by surface-engineered nanorod probes. <i>Scientific Reports</i> , 2017 , 7, 4752	4.9	8
26	Fluorescence-based ion-sensing with colloidal particles. <i>Current Opinion in Pharmacology</i> , 2014 , 18, 98-103	3.1	8
25	Real-time, label-free monitoring of cell viability based on cell adhesion measurements with an atomic force microscope. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 23	9.4	7
24	Magnetic Nanoparticles for Cancer Therapy and Bioimaging. <i>Nanomedicine and Nanotoxicology</i> , 2018 , 239-279	0.3	7
23	Synthesis Applications of Gold Nanoparticles. <i>Frontiers of Nanoscience</i> , 2012 , 3-33	0.7	7

22	New Approaches in Nanomedicine for Ischemic Stroke. <i>Pharmaceutics</i> , 2021 , 13,	6.4	7
21	Basic Physicochemical Properties of Polyethylene Glycol Coated Gold Nanoparticles that Determine Their Interaction with Cells. <i>Angewandte Chemie</i> , 2016 , 128, 5573-5577	3.6	7
20	Enhanced Terahertz Radiation Generation of Photoconductive Antennas Based on Manganese Ferrite Nanoparticles. <i>Scientific Reports</i> , 2017 , 7, 46261	4.9	6
19	Antireflection self-reference method based on ultrathin metallic nanofilms for improving terahertz reflection spectroscopy. <i>Optics Express</i> , 2018 , 26, 19470-19478	3.3	5
18	Hyperthermia Using Inorganic Nanoparticles. <i>Frontiers of Nanoscience</i> , 2012 , 309-335	0.7	5
17	In depth characterisation of the biomolecular coronas of polymer coated inorganic nanoparticles with differential centrifugal sedimentation. <i>Scientific Reports</i> , 2021 , 11, 6443	4.9	5
16	Aerogelation of Polymer-Coated Photoluminescent, Plasmonic, and Magnetic Nanoparticles for Biosensing Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6678-6688	5.6	4
15	Hyperspectral-enhanced dark field analysis of individual and collective photo-responsive gold-copper sulfide nanoparticles. <i>Nanoscale</i> , 2021 , 13, 13256-13272	7.7	4
14	Plasmonic Cell-Derived Nanocomposites for Light-Controlled Cargo Release inside Living Cells. <i>Advanced Biology</i> , 2020 , 4, e1900260	3.5	4
13	Nanoparticle behavior and stability in biological environments 2020 , 5-18		3
12	Nanoprisms: Gold Nanoprisms as Optoacoustic Signal Nanoamplifiers for In Vivo Bioimaging of Gastrointestinal Cancers (Small 1/2013). <i>Small</i> , 2013 , 9, 67-67	11	2
11	Optical biosensor technologies for molecular diagnostics at the point-of-care 2015 ,		2
10	Aqueous Synthesis of Copper(II)-Imidazolate Nanoparticles. <i>Inorganic Chemistry</i> , 2018 , 57, 12056-12065	5.1	2
9	Design and characterization of functional nanoparticles for enhanced bio-performance. <i>Methods in Molecular Biology</i> , 2013 , 1051, 165-207	1.4	1
8	Sonosensitive capsules for brain thrombolysis increase ischemic damage in a stroke model.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 46	9.4	1
7	Plasmonic-Assisted Thermocyclizations in Living Cells Using Metal-Organic Framework Based Nanoreactors. <i>ACS Nano</i> , 2021 , 15, 16924-16933	16.7	1
6	REAP: revealing drug tolerant persister cells in cancer using contrast enhanced optical coherence and photoacoustic tomography. <i>JPhys Photonics</i> , 2021 , 3, 021001	2.5	1
5	Colloidal stability of polymer coated zwitterionic Au nanoparticles in biological media. <i>Inorganica Chimica Acta</i> , 2022 , 534, 120820	2.7	0

- 4 Monodisperse superparamagnetic nanoparticles separation adsorbents for high-yield removal of arsenic and/or mercury metals in aqueous media. *Journal of Molecular Liquids*, **2021**, 335, 116485 6 ○
- 3 Pathways Related to NLRP3 Inflammasome Activation Induced by Gold Nanorods. *International Journal of Molecular Sciences*, **2022**, 23, 5763 6.3 ○
- 2 Synthesis and Surface Engineering of Gold Nanoparticles, and Their Potential Applications in Bionanotechnology **2017**,
- 1 Sterilization Case Study 1: Effects of Different Sterilization Techniques on Gold Nanoparticles. *Frontiers in Nanobiomedical Research*, **2016**, 77-92